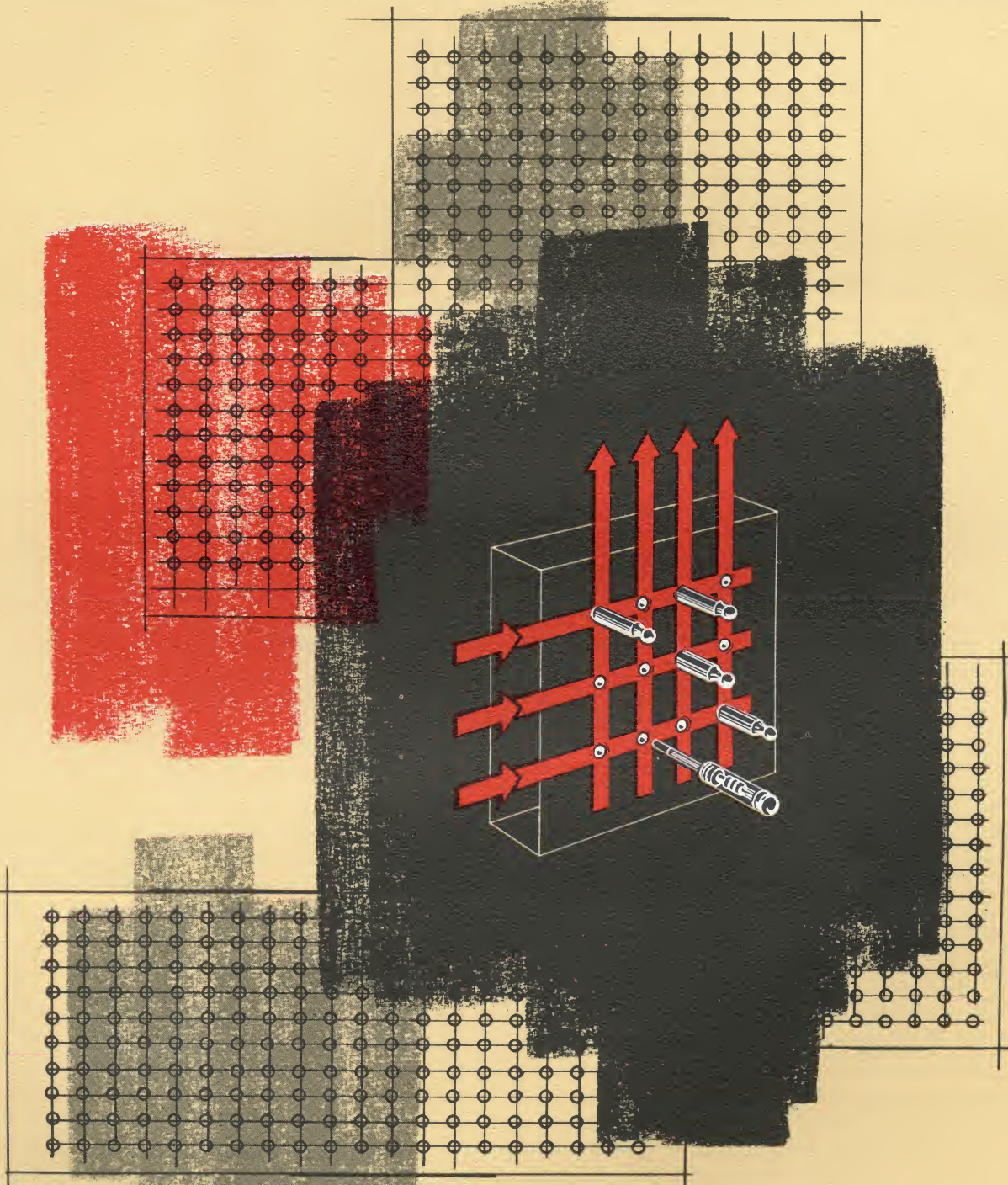


SEAELECTROBOARD®

THE ADVANCED SYSTEM FOR PROGRAMMING AND SWITCHING



SEAELECTRO
CORPORATION

HOYT STREET • MAMARONECK • NEW YORK
PHONE: 914 698-5600 TWX: 914-3180

Seaelectro Ltd., Portsmouth, Hants, England

The Sealectoboard* is a multiple pole, multiple throw switching device consisting of an X-Y matrix with two or three contact decks in the Z plane. X, Y, and Z contact busses may be interconnected in a variety of ways through shorting, skip, and component holding pins.

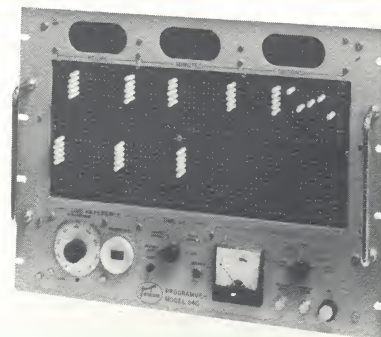
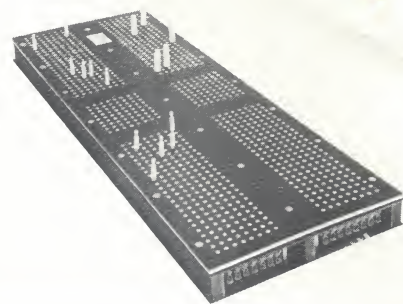
This unique configuration provides interconnection flexibility for programming, equipment process control, bread boarding, and input-output signal selection. The Sealectoboard replaces patchboards with their confusing "birdsnest" of jumper wires, expensive and complicated multi-point switches, and other programming devices.

The applications for the Sealectoboard are virtually limitless. They include computer programming, machine tool control, telemetry systems, flight simulators, audio signal distribution networks, lighting systems, manufacturing test centers, telephone systems, digital coding and decoding diode matrices, and a host of other industrial, commercial and military applications.

INTRODUCTION

The information contained in this catalog describes the basic Sealectoboard capabilities. Sealectro can design and construct Sealectoboards to meet very specific customer requirements for size, function, and configuration as well as for special function pins. Submit your requirements to the Sealectoboard Application Engineering Department, our engineers are at your service.

The "SEALECTOBOARD" is covered by U.S. Patent No. 3027534
Copyright 1965 SEALECTRO CORPORATION



The Sealectoboard consists of multiple vertically stacked planes of contact strips running at 90° to each other. These alternate X and Y insulated planes and strips form an electrical X-Y matrix as illustrated in Fig. 1.

Terminations for each contact strip are brought out through the bottom of the assembly for connection to associated circuitry. The entire contact assembly is sandwiched between non-conductive boards with the top board or panel providing insertion holes (.250" c/c) at every intersection of the X and Y coordinates. With a two deck board, insertion of a shorting pin, connects the upper and lower deck, providing an electrical connection at that particular X-Y coordinate. Insertion of a component holder connects the particular component between the X and Y busses at the selected coordinate. With 3 deck boards, skip pins can be inserted to provide an electrical connection between any two decks or shorting pins may be used to connect all three decks at every coordinate. Component holders for 3 deck boards are also available to connect the desired component between any two decks of a 3 deck board.

ELECTRICAL SPECIFICATIONS

Maximum Voltage	500 VDC
Flashover at Sea Level	5,000 VDC between planes 3,500 VDC between adjacent strips
Maximum Current	5 Amperes
Contact Resistance	Less than 10 milliohms
Component Holder Voltage Rating	250 VDC

Figure 2 illustrates how 5 inputs may be connected to any of 5 outputs with a typical 2 deck, 5 x 5 Sealectoboard and standard shorting pins. If the shorting pins are replaced with component holders containing diodes, the same basic matrix can be readily converted to a decimal to binary conversion matrix or to a selectable input "and" gate.

Again referring to Fig. 2, proper logic connections from registers or counters at the input and output terminals will allow miniature lamps, in component holders, to be inserted at the matrix intersections to provide a means of selectable, information read-out.

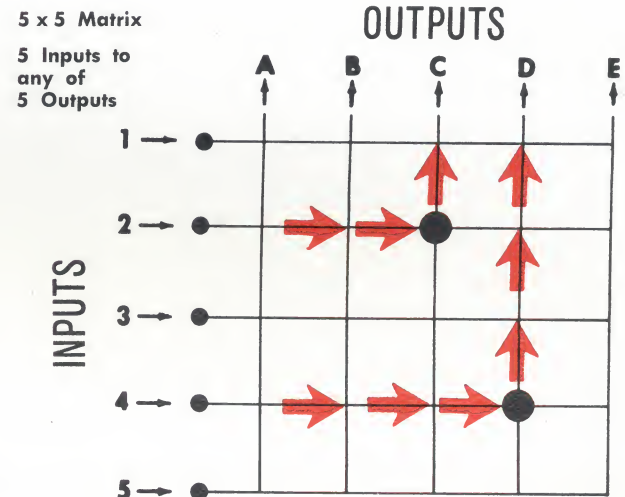


Fig. 2

General Theory of Operation and Specifications

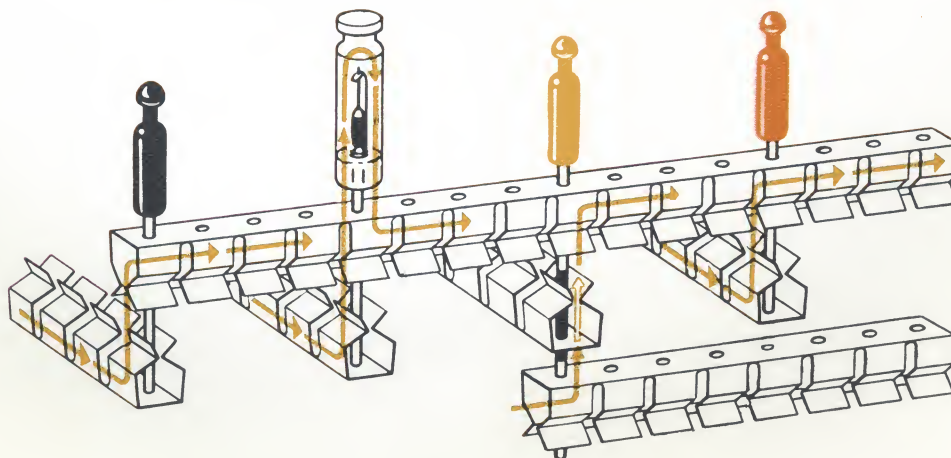
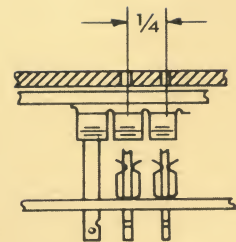
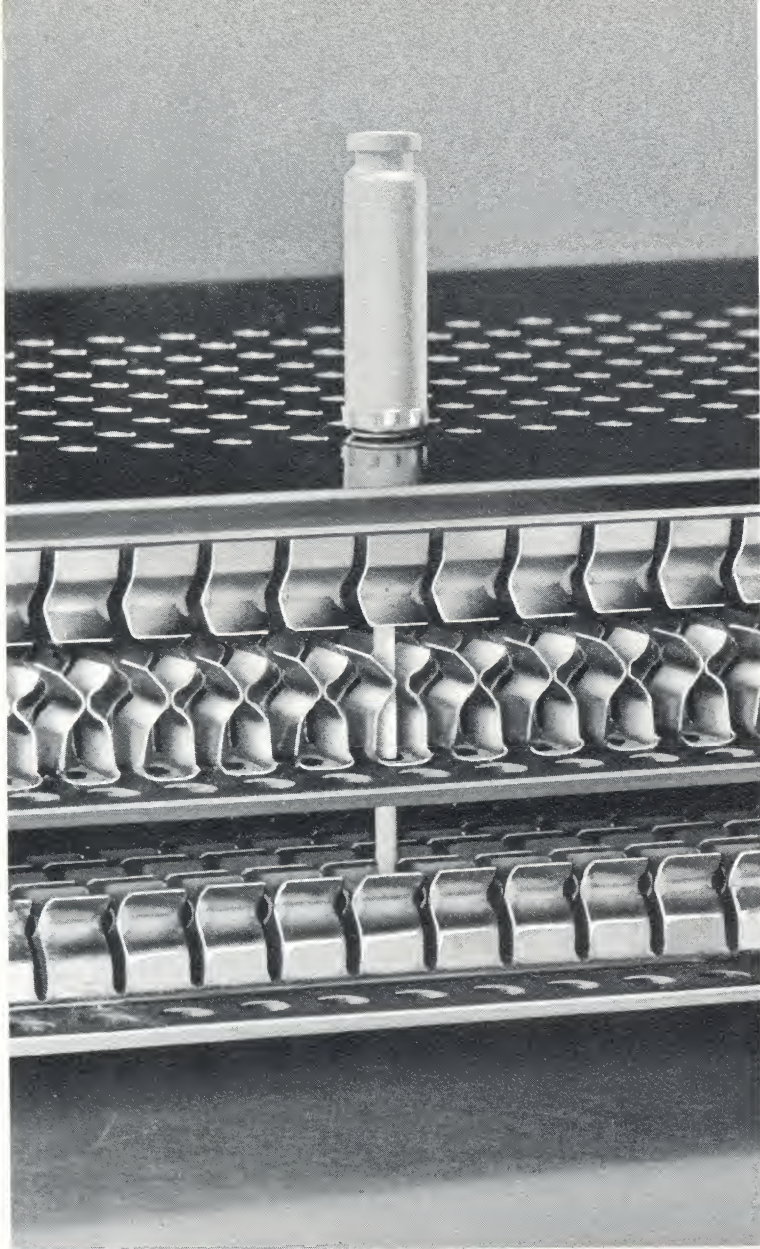


Fig. 1



2 Deck Bussed Upper and Lower Contacts

The standard contact configuration of the Sealectoboard incorporates continuous electrical contact strips for each terminal on the two axes. However, it is often necessary to group contact points, thus providing electrical isolation for associated circuitry. Sealectro engineers will design the Sealectoboard to provide the programming logic necessary for your application.

A 10 x 10 hole board with bussed upper and lower contacts may be considered 10 Single Pole, Single Throw, Normally Open switches with 10 inputs each.

Outputs

	1	2	3	4	5	6	7	8
A	○	○	○	○	○	○	○	○
B	○	○	○	○	○	○	○	○
C	○	○	○	○	○	○	○	○
D	○	○	○	○	○	○	○	○
E	○	○	○	○	○	○	○	○
F	○	○	○	○	○	○	○	○
G	○	○	○	○	○	○	○	○
H	○	○	○	○	○	○	○	○
I	○	○	○	○	○	○	○	○



Panel Markings

The operating panel of the Sealectoboard may be engraved according to the application requirement. The standard panel is a high gloss black panel with dead-white engraving of high legibility. Lettering and numbering is sans-serif, open face. A vertical space of 3/32" must be allowed for each character with vertical rows of numbers or characters located on standard center lines. Silk screened panels are also available for production runs.

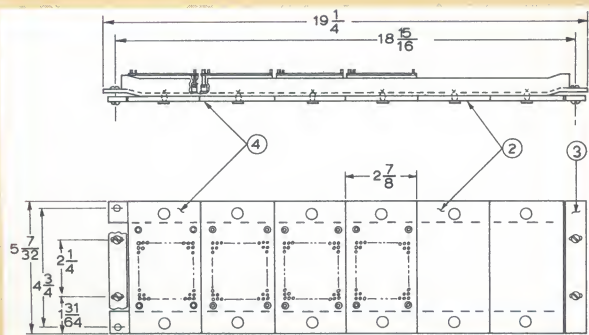
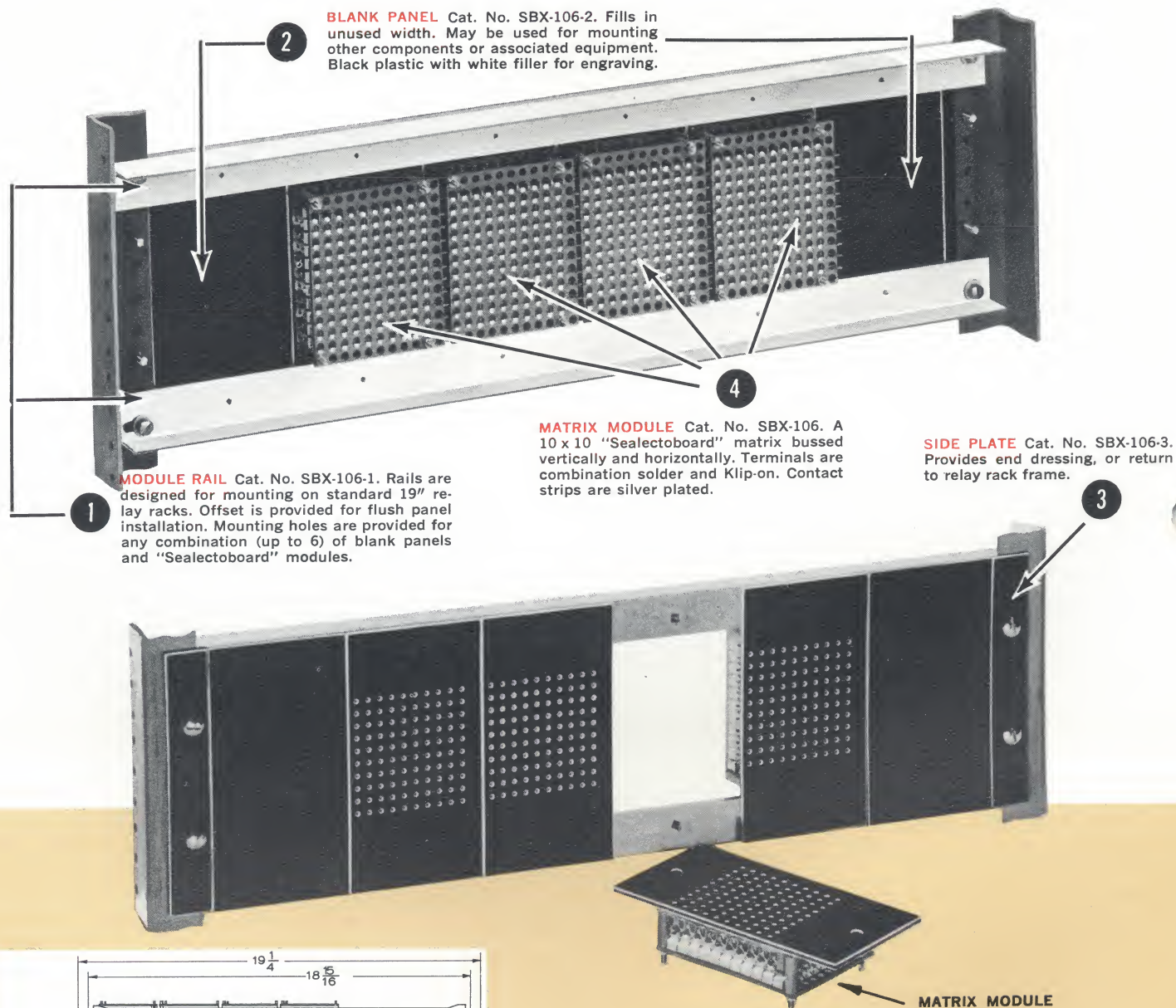
To facilitate program changes, program areas on the Sealectoboard operating panel may be color coded. Consult Sealectro's Engineering Department for special colors, engravings or other panel coding requirements.

Modular Sealectoboard For Standard E.I.A. Rack Mounting

The Modular Sealectoboard retains all of the inherent advantages of the standard Sealectoboard but additionally provides an extremely flexible means of program system expansion. The Modular Sealectoboard system consists of only four standard component assemblies, designed such that when installed in a standard

E.I.A. 19" relay rack, or bench cabinet, they provide a built-in appearance.

The Modular Sealectoboard can be expanded from a 10 x 10 matrix to a 10 x 60 hole matrix in one standard 5-7/32" x 19" rack panel. Additional panels can be added and interwired to expand program capacity as system requirements dictate. A maximum size matrix of 9,000 holes can be built up in a standard 6 foot high by 19" wide cabinet by interconnecting 15, 10x60 panels.



NOTE: Up to 6 matrix modules may be used in a 19" relay rack width. If fewer than 6 are required, space is filled in with Blank Panels. All matrix modules and blank panels are same width may be added at any time by merely replacing blank panels.

Modular Sealectobards are available off the shelf from Sealectro distributors.

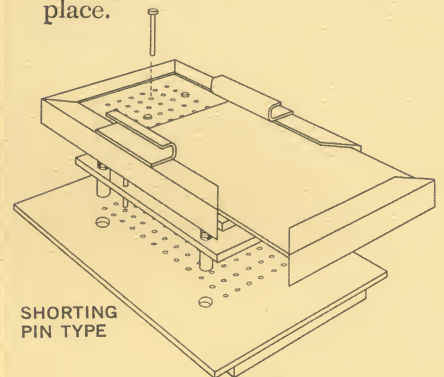
PLUGGABLE SEAELECTOBOARD PROGRAM BOARDS

Pluggable, pre-programmed Seaelectoboards retain the general Seaelectoboard configuration but additionally allow installation of a completely pre-pinned program in seconds, permitting the establishment of two or more program patterns in pre-operational modes.

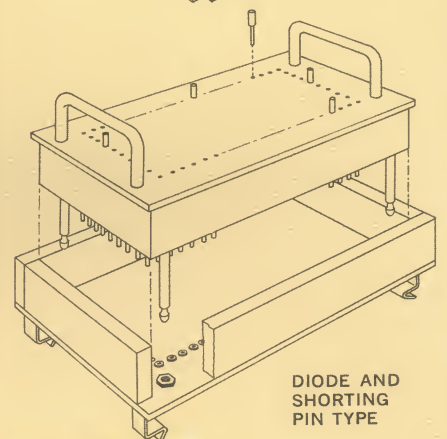
Two basic pluggable Seaelecto-board configurations are available. The pluggable *diode Seaelectoboard* is a complete matrix that can be pre-pinned with both shorting pins and diode holders, and then plugged into the mother board which is permanently wired into the system. Contacts are made from the pluggable Seaelectoboard termination to the equipment terminations by means of Seaelectro floating contact rack-and-panel connectors. Guide pins are provided to assure correct polarization of the pre-pinned program.

The pluggable *shorting pin Seaelectoboard* utilizes a complete Seaelectoboard matrix assembly

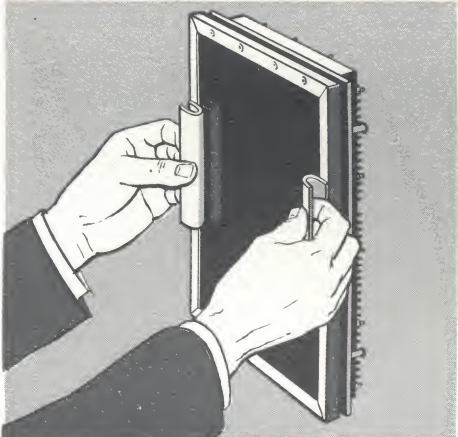
permanently wired into the equipment and a separate shorting pin pattern holder. The pin pattern holder inserts the entire program with one plug-in operation. The holder has a sliding back that can be removed to arrange the shorting pins in the required program format, and when replaced, locks the pins in place.

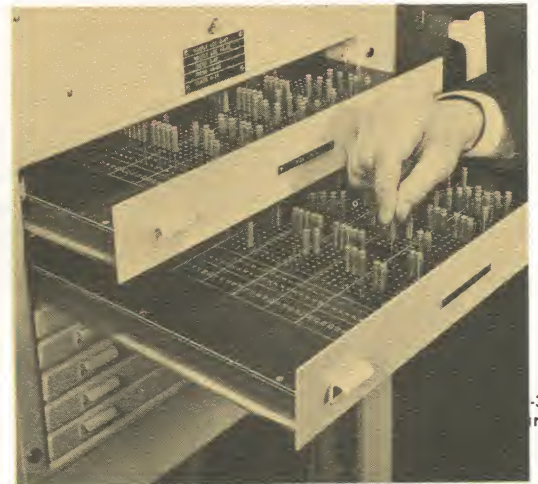
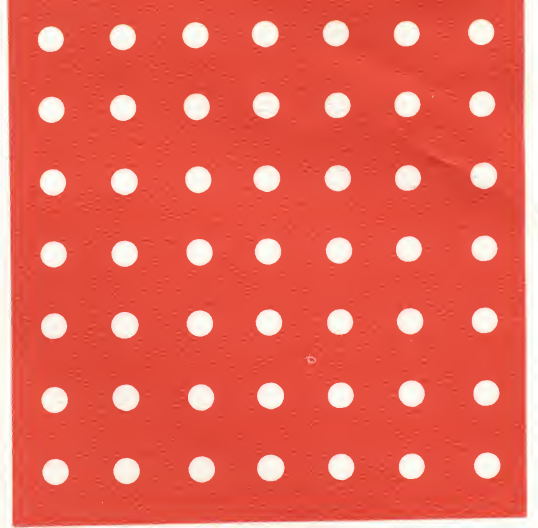


SHORTING
PIN TYPE

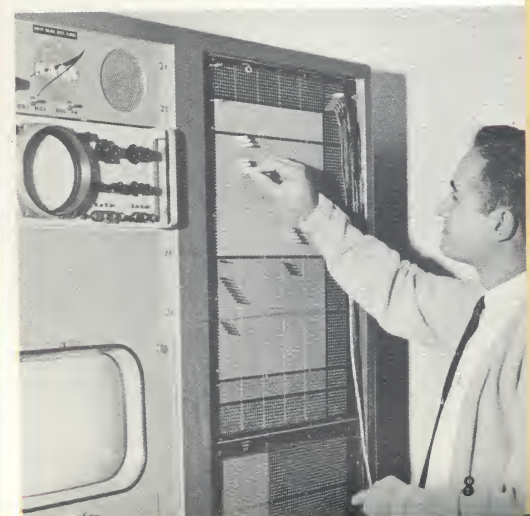
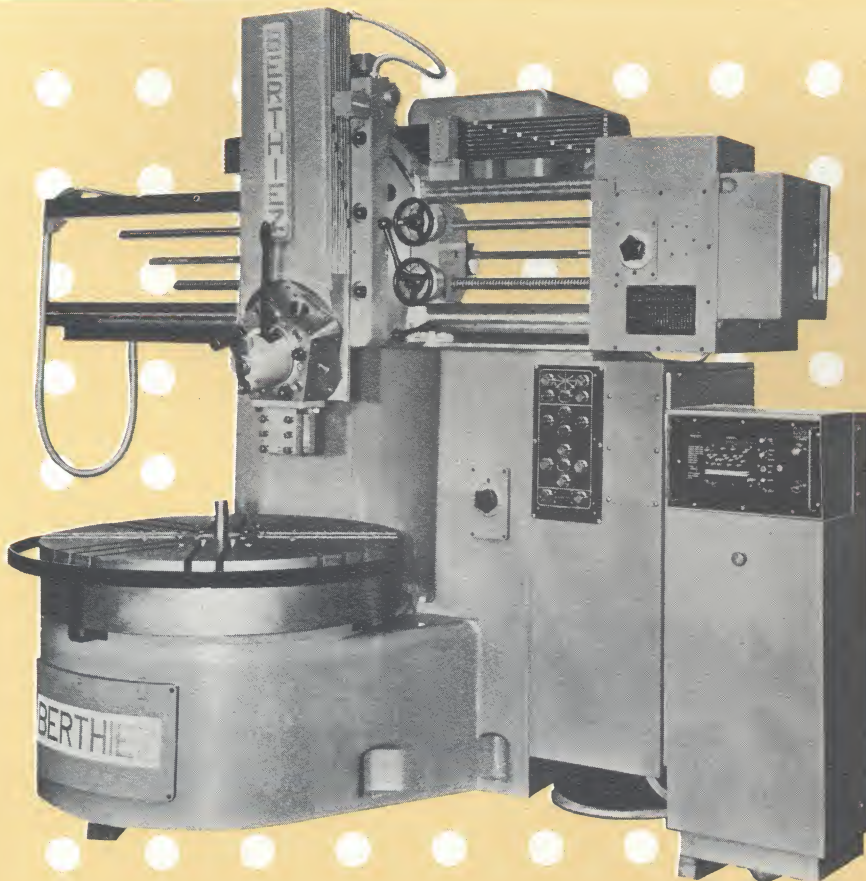


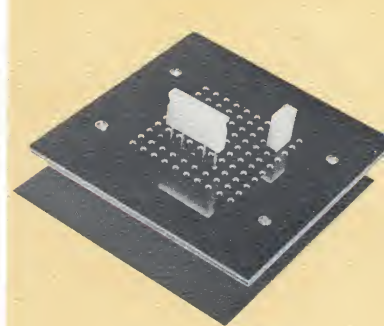
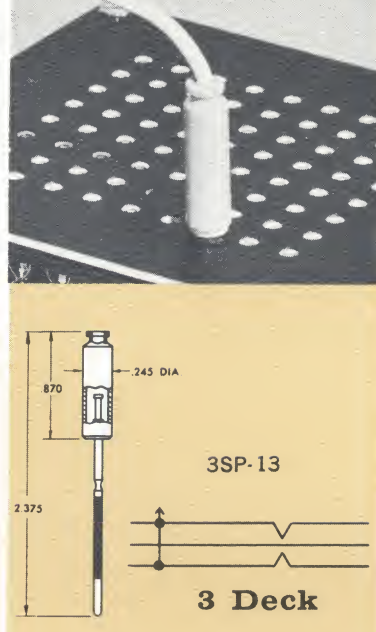
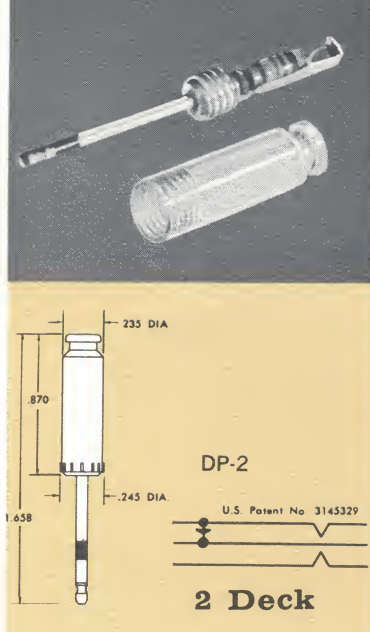
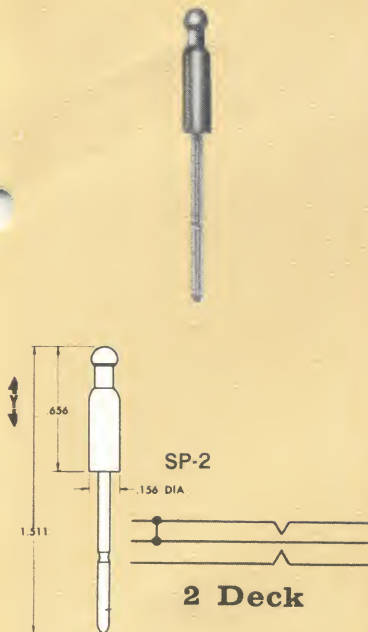
DIODE AND
SHORTING
PIN TYPE



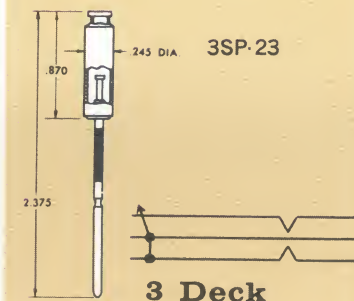
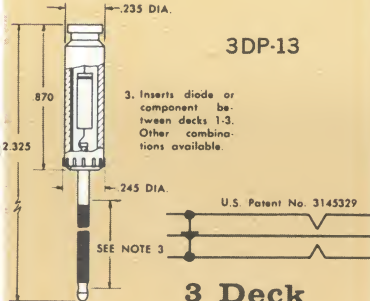
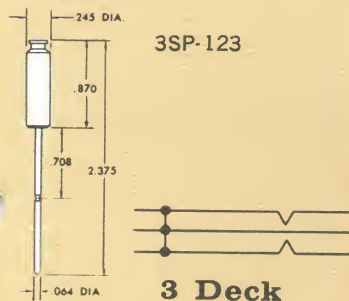


-3.
rn





Multiple pins are also offered in 2, 3, and 4 pin versions which enable multiple contact selection with a single insertion operation.



Sealectomask

	1	2	3	4	5	6
A	⊗	⊗	⊗	⊗	⊗	⊗
B	⊗	⊗	⊗	⊗	⊗	⊗
C	⊗	⊗	⊗	⊗	⊗	⊗
D	⊗	⊗	⊗	⊗	⊗	⊗
E	⊗	⊗	⊗	⊗	⊗	⊗

Program Templates

When the same program board is used for a variety of programs which require frequent replacement or modification, program templates are available to provide a ready indication of pin or diode holder location. Used in conjunction with color coded pins, time consuming program set-ups can be performed in minutes by unskilled personnel.

Shorting pins

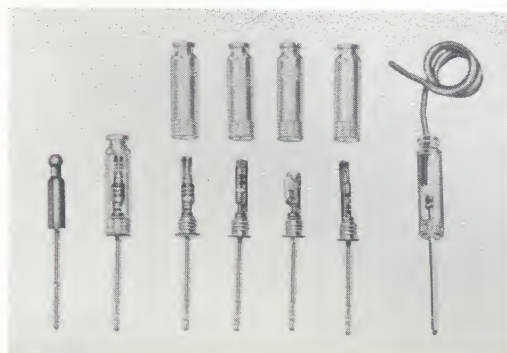
Shorting pins, providing a means of directly interconnecting the Sealectoboard contact decks, are available for both 2 and 3 deck boards. These pins are offered in standard E.I.A. colors to facilitate program set up and to provide a high degree of program readability.

Sealectoplug Component Holders

Standard units will accommodate components within the dimensions illustrated. For special applications, special Sealectoplugs are available to house a variety of electronic components including potentiometers, miniature lamps or relays.

Wireable Skip Pins

Wireable pins provide a means of connecting external circuitry to Sealectoboard including test equipment and function generators. For special purposes, they may also be used to form patchcords for connecting separate program boards and for performing special logic functions.

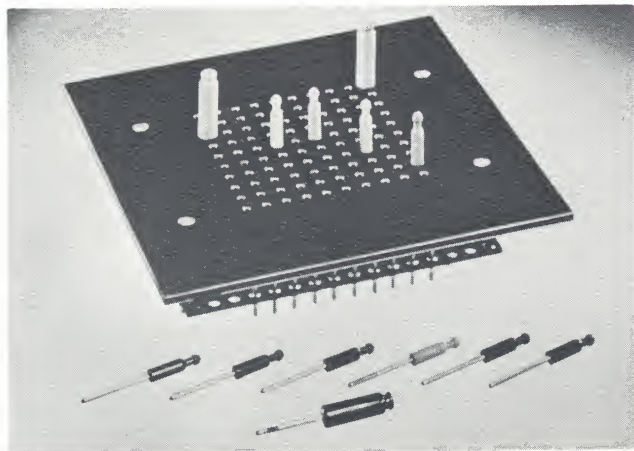


PINS

Companion pins and holders are offered in configurations to fill virtually every Sealectoboard application requirement. These include shorting, skip, component, wireable, and multiple pins for both the 2 and 3 deck Sealectoboard. All plugs feature handles fabricated of polypropylene or Delrin with .0003 silver-plated or gold-plated brass pins. They are available in ten standard E.I.A. colors for program and function coding.

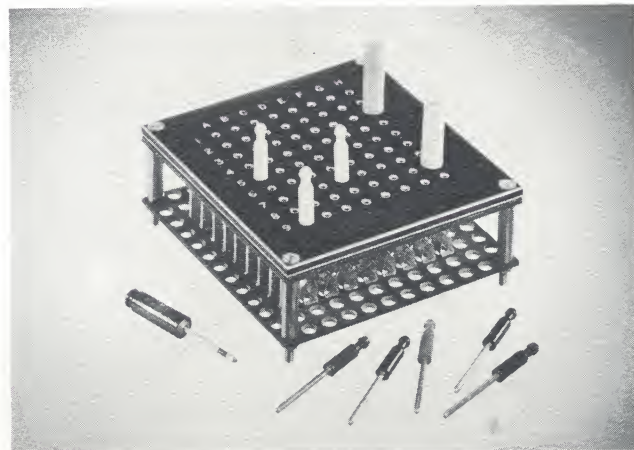
SEAELECTROBOARD PROTO-KITS

Proto-Kits offer an economical and positive method for testing and evaluating the "Seaelectroboard" in your prototype work. The Proto-Kit, available in two models, is a *low cost*, complete "Seaelectroboard" system capable of providing every function of a program board . . . switching, programming component insertion, etc. These units are available from your local Seaelectro distributor, completely packaged, ready to use.



10 x 10 Proto-Kit

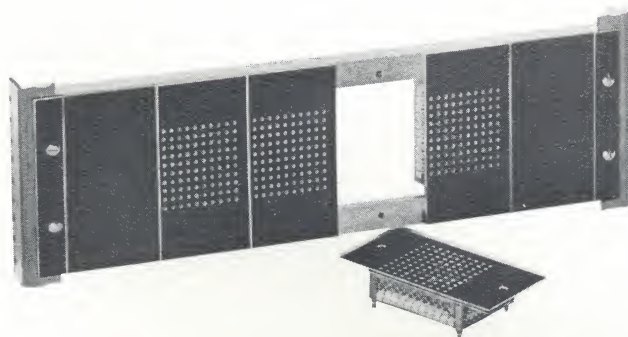
Consisting of a 10 x 10 "Seaelectroboard", 10 shorting pins, and 3 component holders.



9 x 8 Proto-Kit

Consisting of a 9 x 8 "Seaelectroboard", 8 shorting pins and 3 component holders.

Additional shorting pins and component holders are available from your Seaelectro distributor at nominal cost.



MODULAR "SEAELECTROBOARDS"

Modular "Seaelectroboards", as described in detail on page 6 of this catalog, provide an extremely flexible means of system expansion while offering an attractive, built-in appearance for one-of-a type designs. Modular "Seaelectroboards" are available off-the-shelf at local Seaelectro distributors.

**PROTO-KITS AND MODULAR "SEAELECTROBOARDS" ARE
AVAILABLE FROM YOUR LOCAL SEAELECTRO DISTRIBUTOR**



SEAELECTRO CORPORATION

225 Hoyt Street • Mamaroneck, New York • 914 Owens 8-5600

Printed in U.S.A.



SEAELECTRO

CORPORATION

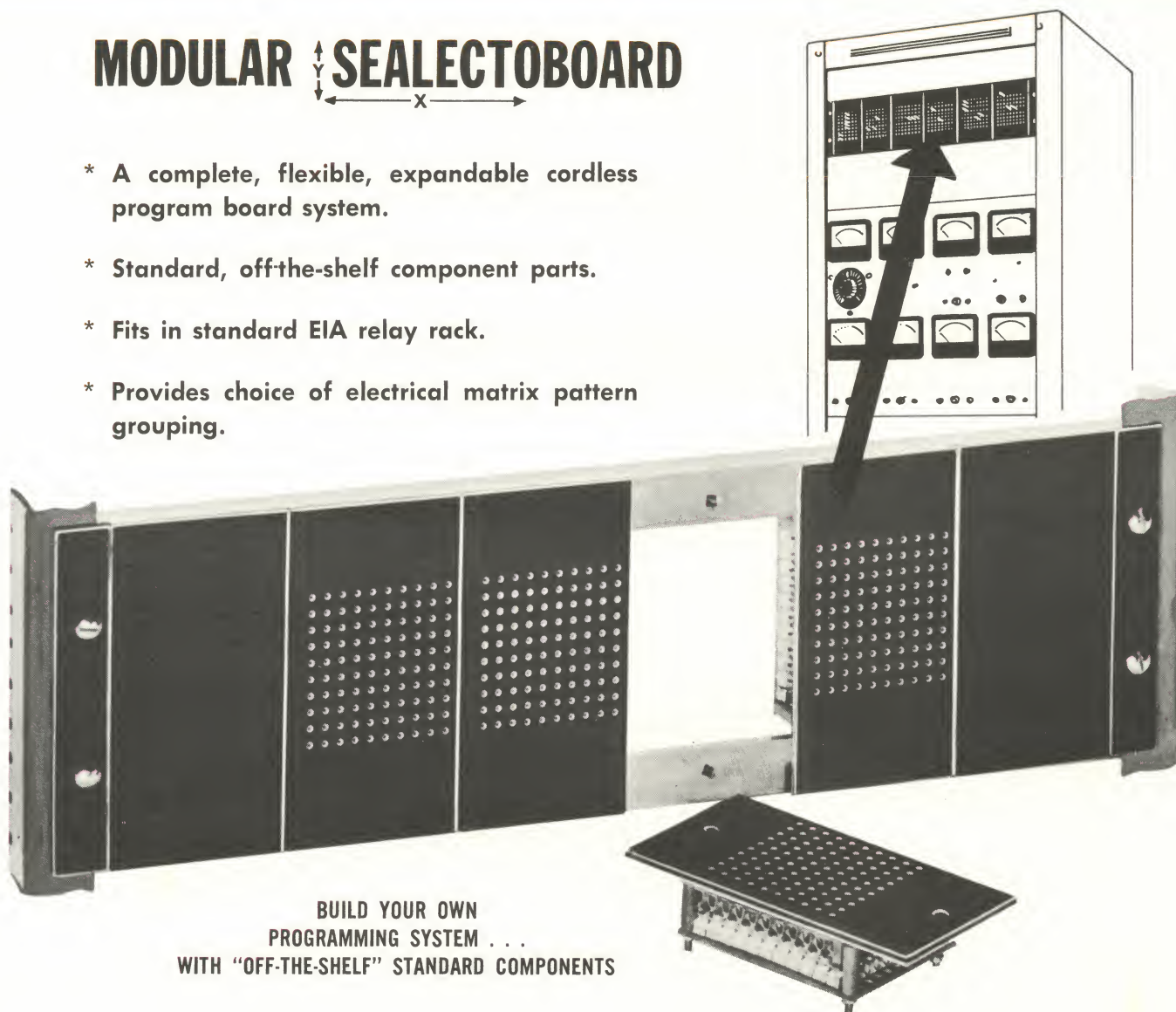
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SEAELECTOBOARD PRODUCT BULLETIN

BULLETIN NO. SB-3

MODULAR SEAELECTOBOARD

- * A complete, flexible, expandable cordless program board system.
- * Standard, off-the-shelf component parts.
- * Fits in standard EIA relay rack.
- * Provides choice of electrical matrix pattern grouping.



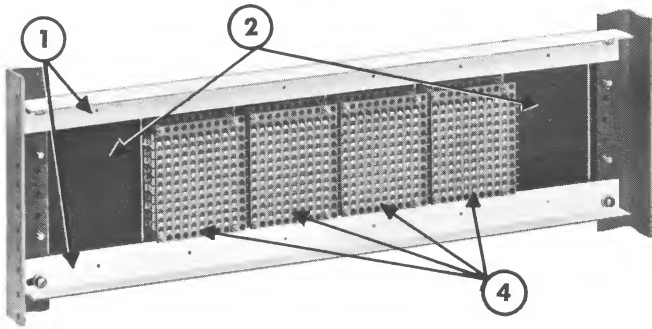
BUILD YOUR OWN
PROGRAMMING SYSTEM . . .
WITH "OFF-THE-SHELF" STANDARD COMPONENTS

The "Sealectoboard" Modular System provides all the inherent features of the well-known "Sealectoboard" cordless programming board concept along with the ability of expansion without obsolescence. The System is made of only four standard component assemblies which are readily available from Sealectro Distributors for immediate, local, off-the-shelf delivery. The units are so designed, that when installed in a standard EIA 19" relay rack, or bench cabinet, the appearance is "built-in". The Modular "Sealectoboard" can be expanded from a 10 x 10 matrix to a 10 x 60 hole matrix in one standard $5\frac{1}{32}$ " x 19" rack panel. Additional panels can be added and inter-

wired to expand program capacity as system requirements dictate. A maximum size matrix of 9,000 holes can be built up in a standard 6 foot high by 19" wide cabinet by interconnecting 15, 10 x 60 panels.

The "Sealectoboard" permits complete matrix switching at a push of a pin with either a straight electrical connection or through a diode or other electrical component. There are no jungles of jumbled patchcords or other complicated apparatus. Performance and dependability have been proved and accepted by the most critical users of programming devices in ever-growing numbers.

MODULAR "SEAELECTOBOARD" COMPONENTS



1 MODULE RAIL Cat. No. SBX-106-1. Rails are designed for mounting on standard 19" relay racks. Offset is provided for flush panel installation. Mounting holes are provided for any combination (up to 6) of blank panels and "Seaelectroboard" modules.

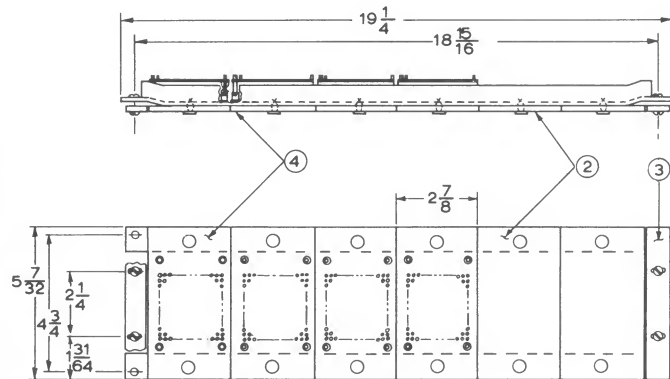
2 BLANK PANEL Cat. No. SBX-106-2. Fills in unused width. May be used for mounting other components

or associated equipment. Black plastic with white filler for engraving.

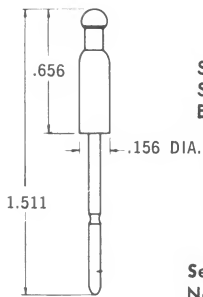
3 SIDE PLATE Cat. No. SBX-106-3. Provides end dressing, or return to relay rack frame.

4 MATRIX MODULE Cat. No. SBX-106. A 10 x 10 "Seaelectroboard" matrix bussed vertically and horizontally with holes on 1/4" centers. Terminals are combination solder and Clip-on. Contact strips are silver plated.

MECHANICAL



NOTE: Up to 6 matrix modules may be used in a 19" relay rack width. If fewer than 6 are required, space is filled in with Blank Panels. All matrix modules and blank panels are same width. Matrixes may be added at any time by merely replacing blank panels.

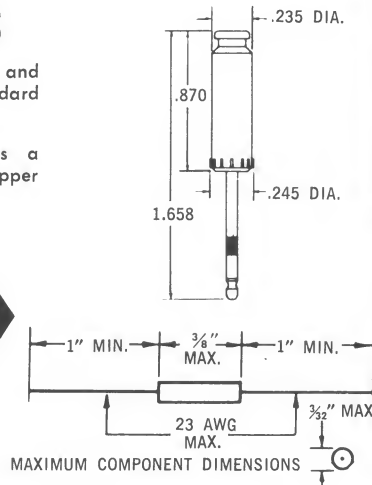


PLUG-IN COMPONENTS

Standard components include Shorting Pin and Seaelectroplug. Both are available in all standard EIA coding colors.

Shorting Pin Cat. No. SP-2. Provides a straight-thru electrical connection from upper to lower contact strip.

Seaelectroplug (U.S. Patent #3,145,329) Cat. No. DP-2. Coaxial contacts provide interpositioning of diode or other component at any desired point of coincidence in matrix. Component is easily and quickly soldered in place in handle of Seaelectroplug.



ELECTRICAL

Maximum Voltage..... 500 volts DC
Flashover at sea level..... 5000 volts DC
 between planes
 3500 volts DC
 between adjacent
 strips

Maximum Current..... 5 amperes
Contact Resistance..... 5 milliohms
Seaelectroplug Voltage Rating 250 volts DC
Contact Plating..... Silver

PRICES

SBX-106	\$17.00 each	SBX-106-3	\$1.23 each
SBX-106-1	3.88 each	SP-2	.12 each
SBX-106-2	1.77 each	DP-2	.51 each

SEAELECTRO CORPORATION





SEALECTRO

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SEALCOTOBOARD

PRODUCT BULLETIN

BULLETIN NO. SB-4

SEALCOTJACK

miniature jack / socket

No. JS-1000

The Sealectojack is a miniature two-pole, open circuit jack specifically designed for maximum packing densities while providing extremely high electrical and mechanical performance. Center-to-center mounting may be as close as $\frac{1}{4}$ " in both axis without any danger of shorting or arcing between units as a result of the Sealectojack's unique molded polypropylene body design. Highly resilient Beryllium-Copper double sided contacts with a Gold flash finish assure reliable, noise-free operation with low contact resistance and insertion force while maintaining a high contact pressure.

Mating Sealectro plugs are available in several configurations to provide a variety of switching or interconnection functions including shorting, independent connection to either or both contacts, or the interpositioning of diodes or other components between the contacts.



- $\frac{1}{4}$ " Center-to-Center Mounting
- Multiple Switching Functions
- Molded Polypropylene Body
- Single Hole Mounting
- Gold Flash Beryllium-Copper Contacts

SPECIFICATIONS

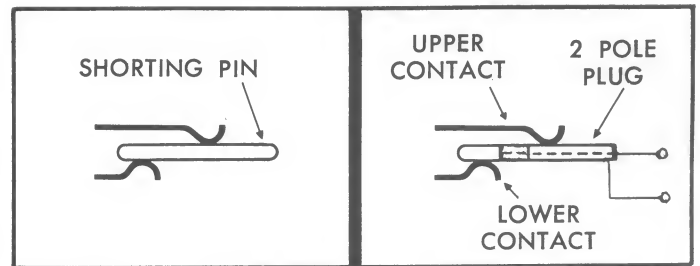
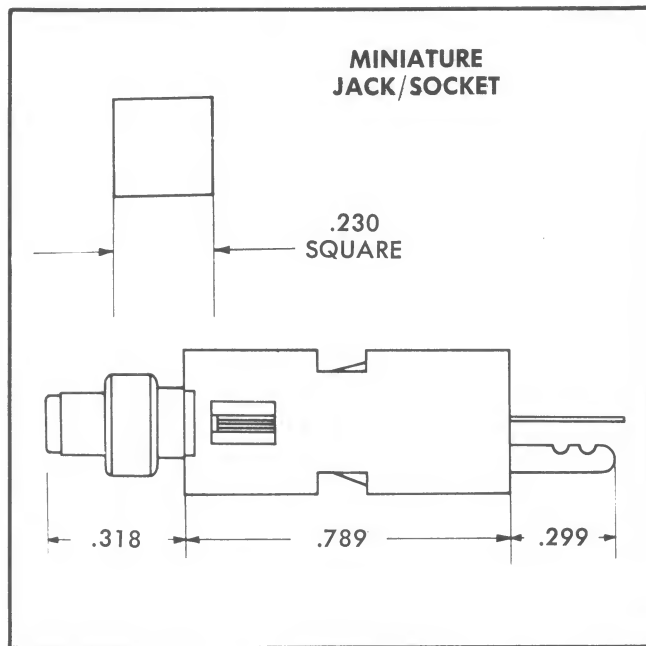
MECHANICAL

Contacts: Double sided Be-Cu, Gold flash
Body Molding: Polypropylene

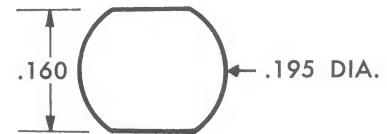
Mounting Stud and Nut: Brass, Bright
Chromium Plated

ELECTRICAL

Contacts: Two pole, normally open
Voltage: 230 RMS Max.
Current: 1 Amp. Max.
Contact Resistance: 10 Milliohms Max.
(Contact-Pin-Contact)



MOUNTING

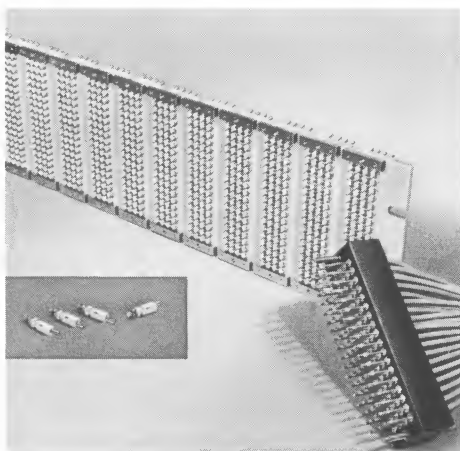


One Hole Mounting.
Maximum Panel Thickness $\frac{3}{16}$ "
Chassis Piercing Details: Flats Only
Necessary When Pitch Exceeds $\frac{1}{4}$ "

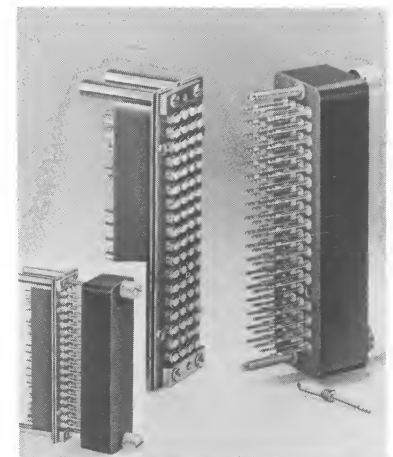
MATING PINS AND PLUGS



DESCRIPTION	FUNCTION	PART NO.
TWO POLE SHORTING PIN	CLOSES CIRCUIT	SP-2
TWO POLE WIREABLE SHORTING PIN	CLOSES CIRCUIT AND CONNECTS A WIRE LEAD	SP-6
SINGLE POLE WIREABLE PIN	CONNECTS A WIRE LEAD TO THE UPPER CONTACT	SP-5
TWO POLE COMPONENT PLUG	CONNECTS A COMPONENT LOCATED IN THE PLUG BODY BETWEEN THE TWO CONTACTS	DP-2
TWO POLE WIREABLE PLUG	CONNECTS A WIRE LEAD TO EACH CONTACT	DP-5



In addition to many applications as a standard two-pole jack, the Sealectro-jack may be mounted in large fields to provide a large number of selectable contact programming functions as illustrated in these two photographs. If you have an application requiring multiple jack connections, contact us. Our application engineers are at your service.

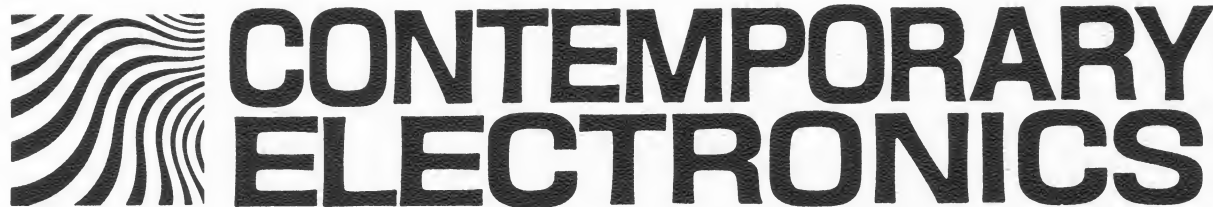


SEALECTRO CORPORATION

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Printed in U.S.A.

Here is the information you requested from:



CONTEMPORARY ELECTRONICS

128 North Jackson,

Hopkins, Minn. 55343

Telephone: 612 935-8481

Thank you for your interest on Contemporary Electronics Products and capability.

We hope that the literature enclosed helps to answer your questions. Please call on us whenever we can be of further service.

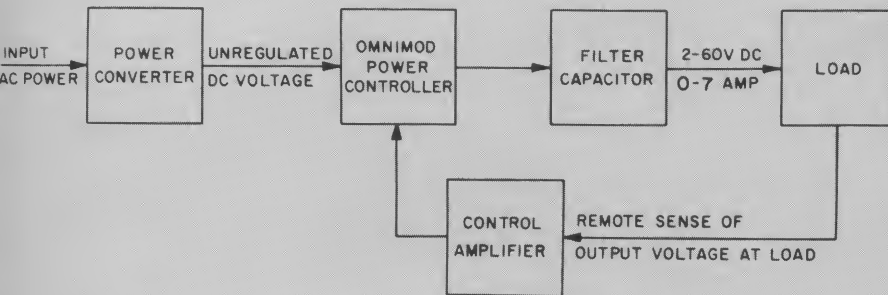
Very truly yours,

Extra service to the Electronics Industry.

Contemporary Electronics

CONCEPT DESCRIPTION

The OMNIMOD concept is most easily understood through use of this diagram:



THE POWER CONVERTER is a transformer, rectifier, and choke input filter. This section changes input AC power into unregulated dc voltage. The converter can be designed to operate throughout a power line frequency range of 47 to 470 cps with typical line voltage variations. Either single phase or three phase power must be specified.

THE OMNIMOD POWER CONTROLLER is a switching type regulator. This regulator module can supply any needed regulated voltage between ± 2 and ± 60 v dc from 0 to 7 amperes *without modification or adjustment*.

THE FILTER CAPACITOR is located outside the OMNIMOD power controller. This is done so that the proper value of capacitance can be used to obtain the required ripple voltage level, or to satisfy unusual load requirements such as the load presented by line printer hammers.

THE CONTROL AMPLIFIER senses the output voltage and commands the power controller to obtain the desired voltage at the load. Output voltage is determined by adjusting this amplifier. Any control amplifier can command up to four OMNIMOD power controllers when loads in the range of 7 to 25 amperes are to be supplied. The number of regulated custom power supplies that can be assembled through various combinations of OMNIMOD power controllers, control amplifiers and filter capacitors is almost unlimited. Only the power converter section need be designed for any new custom requirement.

OMNIMOD
POWER
SUPPLY

OMNIMOD POWER SUPPLY



CONTEMPORARY
ELECTRONICS

EXTRA SERVICE

SPECIFICATIONS

INPUT POWER

The converter will accept either single phase or three phase input power, but not both. The converter can be designed to operate throughout a power line frequency range of 47 to 470 cps and with any given set of input voltages such as 115/208/230V rms with typical line variation.

OUTPUT VOLTAGE

Any regulated output voltage from ± 2 to ± 60 V dc at 0 to 7 amperes may be obtained from the OMNIMOD power controller without adjustment or modification. The control amplifier must be adjusted to give the desired output voltage level. Plus and minus power control modules are available, if desired, to simplify some multi-output power supply systems.

EFFICIENCY

Typical efficiency of the OMNIMOD power supply is 90 % at 30 volts dc output, full load and nominal line voltage. Efficiency will be higher than 90 % at output voltages above 30 volts and less than 90 % at voltages below 30 volts. These figures neglect the efficiency of the power converter section and amplifier.

SIZE

Power controller:	5 x 4 x 2 inches
Control amplifier:	5 x 4 x $\frac{1}{2}$ inch
Filter capacitors:	3 inch diameter x $4\frac{1}{2}$ inch long cans

REMOTE SENSING

Voltage may be controlled at any point in the load.

LINE ISOLATION

Line isolation is provided through the input power converter which may be located some distance from the OMNIMOD power controller modules.

TEMPERATURE RANGE

10 to 50C ambient air. Convection cooled.

LINE AND LOAD REGULATION

Combined line and load regulation is 0.02 % of output voltage, or 45 mv, which ever is greater.

TRANSIENT RESPONSE

Peak excursion of output voltage during no load to full load or full load to no load steps is no greater than two times the regulation band.

RIPPLE

Ripple level is determined by the amount of output filter capacitance used. With one 3 inch aluminum electrolytic capacitor, peak to peak ripple is typically 200 mv. Ripple level can be greatly reduced through use of a two stage filter consisting of two capacitors and a small choke.

MISCELLANEOUS

Overvoltage protection, voltage sequencing and voltage variation with temperature at some external point is accomplished with external circuitry. The supply has internal current limiting for short circuit protection.

FEATURES

EASY MAINTENANCE

Should a power supply failure occur, the problem is easily located with minimum equipment. In most instances, repair is simply the replacement of a module. This reduces power supply down-time to an absolute minimum. Units are interchangeable. This means fewer parts need be in stock for a major D.P. system.

ADD-ON CAPABILITY

If a system is produced which requires a larger than normal power supply system, more modules are used. Only minimal new design and evaluation effort is required, and no additional field support is needed.

IMPROVED MACHINE PACKAGING

Because of modular construction, the power regulation elements can be distributed throughout the electronic circuit sections of the machine. The power converter section is centrally located, common to all power control modules and occupies only part of the volume normally used by power supplies. This makes overall machine packaging easier and eliminates many power distribution problems.

LOW COST

Because standard modules produced in volume are used for every purpose, initial design, manual preparation, and production costs are low.

EXCELLENT TRANSIENT REGULATION

The power supply will tolerate zero to full load, or full load to zero current steps and maintain the output voltage within a few millivolts of the regulation level.

LINE LOADING

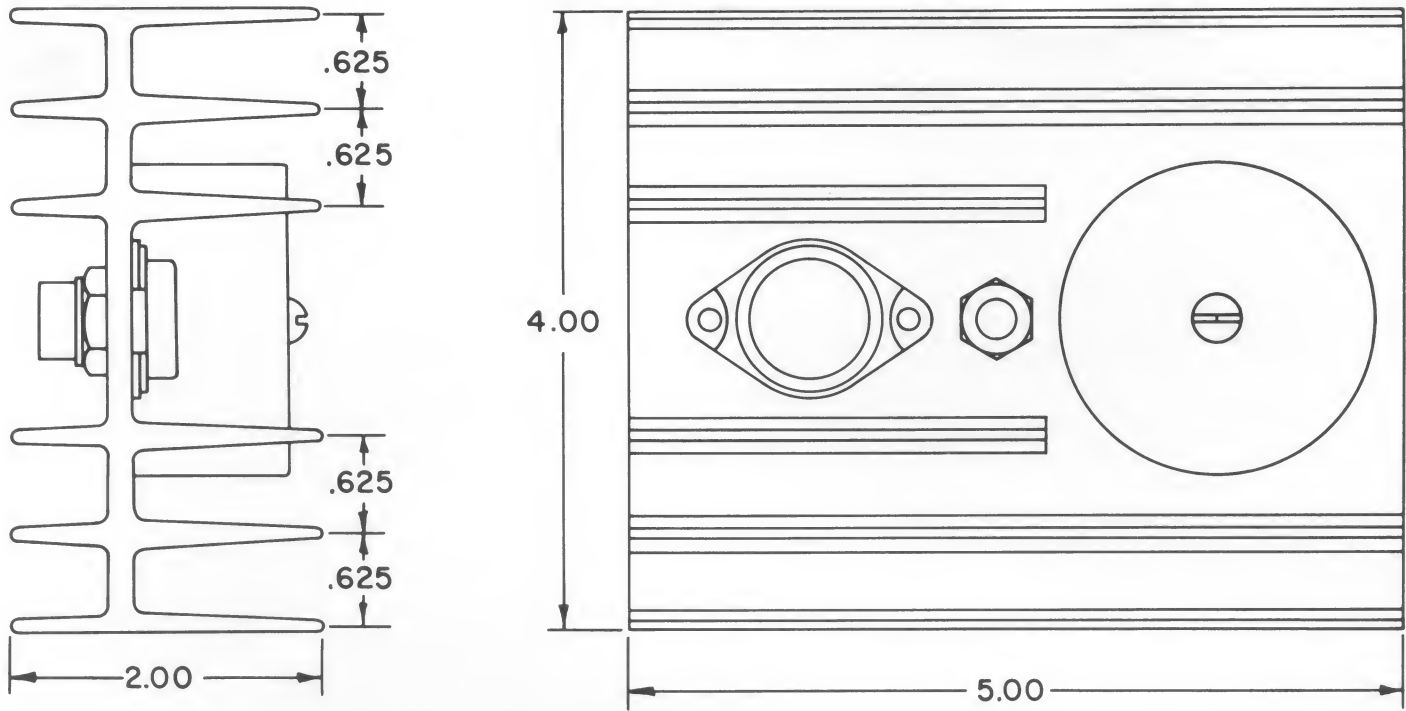
OMNIMOD presents a load to the line that is between 0.9 lagging and unity power factor. OMNIMOD will load all three phases of a 3 phase line within 5 %.

DELIVERY

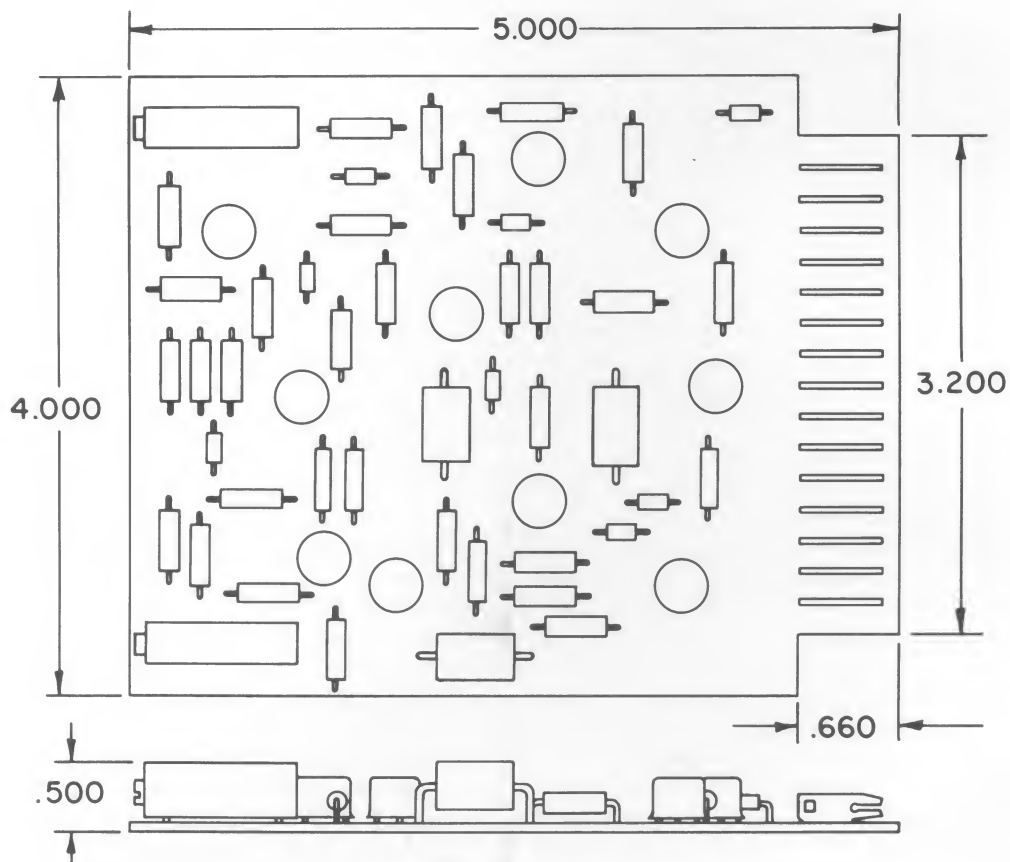
Because OMNIMOD is manufactured and stocked in volume, delivery lead time is shortened. New custom design prototypes, including input power converter and instruction manual can usually be supplied in 2 to 4 weeks after receipt of order.

OTHER FEATURES

- The power supply cannot be damaged by short circuit or open circuit load.
- The power supply cannot reverse voltage output even if shorted to a higher voltage source of opposite polarity.
- Overvoltage protection can be provided which prevents the output from exceeding any preset level.
- Remote voltage level adjustment can be added easily.
- Voltage on and off sequencing in a large system can be supplied.
- Output voltage levels can be automatically varied from preset levels according to the temperature at any point such as internal memory stack temperature.



OMNIMOD POWER CONTROLLER MODULE



OMNIMOD CONTROL AMPLIFIER

OMNIMOD POWER SUPPLY APPLICATIONS

DATA PROCESSING SYSTEMS

Interchangeable OMNIMOD modules are all that is needed to supply most voltages in every element of any data processing system including central processor and all peripheral equipment.

EXAMPLES:

- a. Central processor needs in a typical case might be

Logic Section	Memory Section
$\pm 20\text{V dc @ } 200 \text{ amp}$	$-40\text{V dc @ } 50 \text{ amp}$
$-20\text{V dc @ } 200 \text{ amp}$	$-25\text{V dc @ } 10 \text{ amp}$
$-15\text{V dc @ } 25 \text{ amp}$	$+4.5\text{V dc @ } 75 \text{ amp}$

These needs could be served with one input power converter located in the base of part of the central processor along with 86 OMNIMOD power controller modules, 23 control amplifiers, and 86 capacitors located throughout the central processor.

- b. The high speed line printer used with the above central processor might need 40V dc at 40 amperes for hammer drivers and +12V dc at 10 amps, -12V dc at 10 amps, and +5V dc at 7 amps. This need could be supplied by one input power converter along with eleven OMNIMOD power controllers, five control amplifiers and five filter capacitors. The large storage capacitance ahead of the hammer drivers is not included in the above five capacitors.

- c. Other Peripheral Equipment

Nearly all other pieces of peripheral equipment can be powered in the same manner as in the above example.

OTHER INDUSTRIAL EQUIPMENT

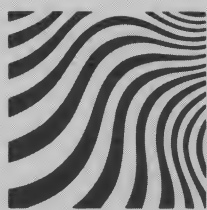
Almost any transistorized industrial equipment requiring regulated dc voltage in the range of 2 to 60V dc can be powered by OMNIMOD in a manner similar to the data processing equipment described above.

LABORATORY POWER SUPPLY

Up to four power controller modules can be used with one control amplifier with a remote potentiometer and switch. This will provide 2 to 60V dc at from 0 to as much as 25 amperes in laboratory or test equipment.

Write or CALL COLLECT when you are anxious to find out what OMNIMOD can do for your system. We'll have the full story to you within 48 hours.

**WE'D LIKE TO HEAR FROM YOU—
WE'RE ANXIOUS TO PLUG SOME INTO
YOUR SYSTEM!**



CONTEMPORARY ELECTRONICS